

PATENT ABSTRACTS OF JAPAN

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(54) BACKWARD WASHING METHOD FOR SEPARATION MEMBRANE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a backward washing method for a separation membrane capable of outstandingly enhancing a washing efficiency at the time of backward washing a separation membrane of a fluid to be treated as compared with the conventional method.

SOLUTION: In a membrane separation device 10, a membrane module 20 in which a plurality of hollow thread film elements 2 are longitudinally provided in parallel is provided in a box body 1. A pump 5 for feeding a washing liquid M is connected to the box body 1 and a vacuum pump 4 for discharging a backward washing liquid Mm from the box body 1 is connected thereto through a pipe having a vacuum tank 6. At the time of backward washing, after the washing liquid M is fed to an external space S2 of the hollow thread film elements 2, a space part S6 of the vacuum tank 6 the pressure of which is previously reduced is communicated with an internal space S1. Thereby, the boiling state of the washing liquid M is generated at a membrane surface part butted to the internal space S1 and deposited substance as a residue removed by filtration is peeled off and removed by an explosion force.

